

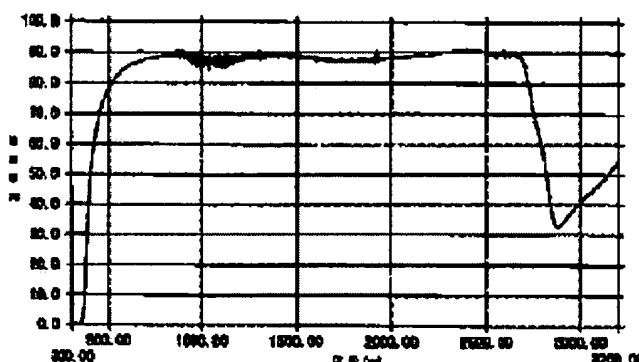
**FRONT GLASS FOR ILLUMINATION**

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**Abstract of JP2002173338**

**PROBLEM TO BE SOLVED:** To provide front glass for illumination which is used for an illuminator and has excellent thermal impact resistance to prevent damage of a light source and splashing of glass splinters to the outside of lighting fixtures in case of the failure of the light source and to facilitate forming of the front glass for illumination. **SOLUTION:** This front lens for illumination is transparent crystallized glass which contains, by mass per cent, 58 to 70% SiO<sub>2</sub>, 18 to 25% Al<sub>2</sub>O<sub>3</sub>, 0.5 to 5% Li<sub>2</sub>O, 0 to 2% Na<sub>2</sub>O, 0 to 2% K<sub>2</sub>O, 1 to 5% MgO, 0 to 0.3% CaO, 0.1 to 2% BaO, 0.1 to 7% ZnO, 0.1 to 7% TiO<sub>2</sub>, 0.5 to 7% ZrO<sub>2</sub> and 0.1 to 2.5% Sb<sub>2</sub>O<sub>3</sub> and in which a  $\beta$ -quartz solid solution is deposited as a main crystal.



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